



SDMS DocID 2232173

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Prg. rpt**CERTIFIED MAIL**

Mr. David P. Turner, RPM (3HW22)  
United States Environmental Protection Agency  
Region III  
841 Chestnut Building  
Philadelphia, PA 19107-4431

February 1, 1996

Reference: Lord-Shope RA Monthly Progress Report

Dear Mr. Turner:

Lord is hereby submitting five copies of the monthly progress report for February 1996.

The following work was conducted during this period:

**REMEDIAL ACTION**

The Thermal Oxidizer has been operating successfully since November 17, 1995. Except for minor stoppages for items such as weather related instrumentation problems, the operation has been without safety or major equipment malfunction to date. Cold weather has caused many instrumentation and monitoring related problems. The destruction efficiency continues to meet the design target of 99.9%.

As planned, the flow rates for the vapors extracted from the cap have been gradually increased to the maximum design capacity of 160 SCFM; This high flow rate has reduced the potential for vapor line freeze-up during sub zero temperature operation. The Crest Header flows have therefor been reduced to less than 10 SCFM so that we may optimize the Main Header flow. The Toe extraction has not been initiated ; this will be last on our agenda since the porosity in this area tends to overwhelm the vacuum system and would limit the removal from the Cap and Crest areas.

The methane content of the vapors from the capped area continue to decrease; latest results were approximately 2%. Methane levels experienced initially were in the range of 50-70 %.

Eckenfelder is studying the pump test results for the groundwater treatment system and will prepare a brief letter report of their findings. Results of the pump test are the basis for the design of the header system which will now proceed. The zone of capture for the recovery wells appears to be approximately 100 feet north of the landfill cap.



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Lord submitted a letter requesting USEPA consideration of intrinsic biotransformation as the primary means of remediation for the far reaches of the plume not captured by the groundwater recovery wells on Lord property near the cap. A letter was received from USEPA approving of this concept. Lord and Eckenfelder are preparing a preliminary report of current and historical findings of intrinsic bioremediation at the site for USEPA review .

A tentative schedule for completion of the groundwater recovery and treatment portion of the RA in 1996 is enclosed. The tentative schedule as presented assumes intrinsic bioremediation will be applicable for the balance of the plume; should that prove not to be the case, the schedule will be modified to include the additional groundwater recovery wells, pump test, and well installation on Over Lake property once access has been obtained.

**MISCELLANEOUS:**

The monthly inspection was performed and the site is in good condition.

Lord is in the process of completing the analytical results for the wells on Over Lake property; these results will be submitted when available.

The analytical results for samples taken during the groundwater pump test have been submitted to USEPA and PADEP; results were in compliance with NPDES limits.

Yours truly,

LORD CORPORATION

Eugene A. Miller  
Manager, Environmental Services

EAM96007/ag

cc: (b) (4) - Eckenfelder, Inc.  
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Robert J. Kimball - PADEP - Certified Mail - 3 copies